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#4 of 8 cgs

QUARTERLY REPORT


SECOND QUARTER FY-64

25X1

6 December 1963

Declass Review by NGA.

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SECTION 1

QUARTERLY REPORT SUMMARY

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Quarterly Report

Period 1 Sept. 1963 to 1 Dec. 1963

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GENERAL

1. The contract sets up eight (8) technical areas of investigation (others to be added as desired) and further indicates that authorization to begin work in any given area must be authorized in advance and be confirmed in writing. As of this date, we have not received any written authorizations for general development effort in any area.
2. The contract also requires written approval to proceed with any "Significant Project". To date, we have had four such telegraphic approvals, all of which are "study" programs but the approval is limited to preparation of design objectives.
3. The contract provides for oral authorization of non-Significant Projects. To date, two such projects have been approved.

It is evident, therefore, that not much can have been accomplished because not much has been authorized. It is the intent of this report to summarize the history and present status of all work to date and to submit design and/or study objectives for definite approval, disapproval or constructive comment.

Cost estimates, where provided, are defined as follows:

- Phase I - Preliminary Design and Specification
- Phase II - Design Engineering
- Phase III - Fabrication and Checkout

Costs of "study" programs are not given in "phases".

To the "Estimated Factory Costs" given, there must be added G&A expense and Fee to obtain contract cost.

PAR 201 - TRAVEL AND LIAISON

This PAR needs no special discussion.

PAR 202 - BRIEFING PRINT ENLARGER

On 9 September, we were requested by telecon to withhold action on this program for six weeks at which time a decision as to its need would be provided. No further information or direction has been received.

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We, therefore, submit herewith a brief Design Objective for consideration (see enclosures).

Estimated Factory Cost at this time.

Phase I -
Phase II -
Phase III -

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PAR 263 - Q & D PRINT SYSTEM

On 9 September, we were requested to withhold action on this program for six weeks at which time a decision as to its need would be provided. No further information or direction has been received.

We, therefore, submit herewith a brief Design Objective for consideration (see enclosures).

Estimated Factory Cost at this time.

Phase I -
Phase II -
Phase III -

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PAR 204 - HIGH QUALITY (HQ) CONTACT PRINTER

On 9 September we received telecon approval to proceed as far as the design concept on this program. Although this eventually would be a Significant Project, we have not yet received this authorization in writing.

We submit herewith such a concept.

Some elaboration of our proposed design is perhaps desirable in order to justify its unorthodox approach. Our original thoughts on the direction to pursue were in favor of a sophisticated version of the air bag type. We have, in fact, recently managed under another development to obtain dirt-free prints with uniform resolution transfers of 400 lines per mm. However, this technique greatly enhances the production of Newton's Rings between the base of the negative and the glass plate. In addition, the electrostatic charges built up on the glass make really clean operation difficult to achieve for reasonable periods.

We have, therefore, decided to recommend the attached approach.

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Estimated Factory Cost at this time.

Phase I -
Phase II -
Phase III -

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PAR 205 - PRECISION 4X ENLARGER

On 9 September we received telecon approval to proceed to prepare design objectives on this program. Again, this would eventually result in a Significant Project but we have not received any follow-up in writing.

Nevertheless, we have proceeded to prepare a Design Concept and submit it herewith. (see enclosures)

Estimated Factory Cost at this time.

Phase I -
Phase II -
Phase III -

25X1

PAR 206 - REVERSAL PROCESSING

This program was approved 27 September by Contracting Officer message Nbr 3929 with the proviso that "Study Objectives" must be submitted and approved before proceeding further.

These Study Objectives are submitted herewith. Estimated Factory Costs at this time -

25X1

PAR 207 - DEFINITIVE STUDY OF CONTACT PRINTERS

This program was approved 27 September by Contracting Officer message Nbr 3929 with the proviso that the "Study Objectives" must be submitted and approved before proceeding further. However, shortly after this provisional approval, we were requested to provide an immediate preliminary report summarizing our knowledge of the moment. Such a report was submitted 11 October.

We submit herewith "Study Objectives" but, as pointed out therein, do not plan to proceed further until the preliminary report has been evaluated. Estimated Factory Cost at this time -

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PAR 208 - IMAGE ENHANCEMENT OF SMALL SCALE PHOTOGRAPHY

On 21 August, we were verbally instructed not to proceed further with this program until the customer had decided which methods or techniques required further investigation. We have not received such direction and, consequently, have nothing to report or submit at this time.

PAR 209 - VARIABLE CONTRAST PHOSPHOR VIEWER

This minor project involved the completion of a breadboard device designed to investigate the possibility of increasing the contrast of "thin" negatives. The device has been completed and is submitted herewith, together with a short write-up of an operational procedure.

PAR 210 - LAMINATION OF GLASS SLIDES

This was a minor project started in the hope that an inexpensive method could be provided for solving the irritating problem of the buckling of slides due to heat in high intensity projection systems. Several methods are being investigated but we have nothing definite to report at this time.

PAR 211 - MICRODENSITOMETER STUDY OF THE EFFECTS OF PROCESSING ON EDGES

A "Study Objective" is submitted herewith.

Estimated Factory Cost at this time

25X1

PAR 212 - STUDY OF COLOR ACQUISITION SYSTEMS

This study was approved 27 September by Contracting Officer message Nbr 3929 with the proviso that "Study Objectives" be submitted and approved before proceeding further.

The requested "Study Objective" is submitted herewith.
Estimated Factory Cost at this time -

25X1

PAR 213 - STUDY OF COLOR DUPLICATION SYSTEMS

This study was approved 27 September by Contracting Officer message Nbr 3929 with the proviso that "Study Objectives" be submitted and approved before proceeding further.

The requested "Study Objective" is submitted herewith.
Estimated Factory Cost at this time -

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PAR 214 - ROLLER TRANSPORT REVERSAL PROCESSOR (RT-12-R)

Telecon approval to proceed with preparation of a design concept was received 9 September. This will be a Significant Project and hence requires written authorization which has not been received. Nevertheless, we have proceeded to prepare a preliminary specification which is submitted herewith.

Estimated Factory Cost at this time.

Phase I -

Phase II -

Phase III -

25X1

PAR 215 - 24 INCH WIDE ROLLER TRANSPORT PROCESSOR (RT-24)

We received telecon approval 9 September to proceed with the preparation of a design concept. This is a Significant Project which requires a written authorization. This has not been received as yet. Nevertheless, we have proceeded to prepare a preliminary specification which is submitted herewith.

Estimated Factory Cost at this time.

Phase I -

Phase II -

Phase III -

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These estimated costs are based on utilizing some of the development data from PAR 214. Should only PAR 215 be approved the total cost would then be

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PAR 216 - EFFECT OF LASERS ON PHOTO MATERIALS

This PAR was opened as the result of the receipt, on 25 September, of an informal memo from the Customer. Suggested design objectives are submitted herewith. Estimated Factory Cost at this time -

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for a level of effort to determine the magnitude of the problem.

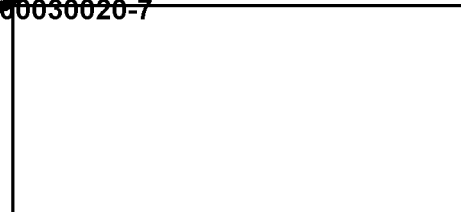
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Par 207

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21 November 1963

Dear John,

JWC
26 Nov

Since completion of the LOW DISTORTION HIGH RESOLUTION PRINTER we have been performing various tests to evaluate its operation for high quality production uses. Enclosed are five (5) copies of the final report presenting the results of this evaluation and our recommendations for the future.

Please feel free to call us if you have any additional questions on the interpretation of the report.

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WRE/PMC

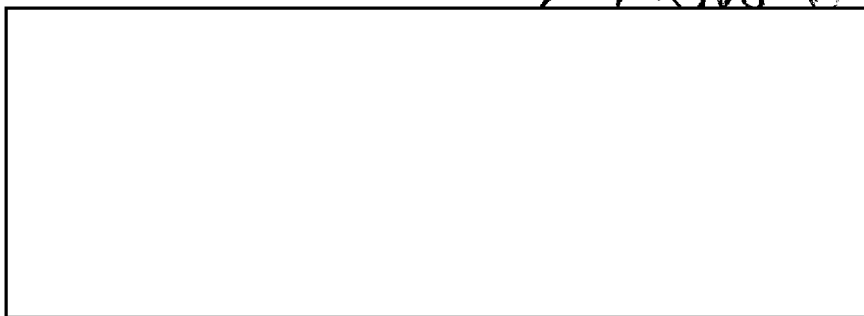
Orig. + c.#1-5: J.C.



Distributed copies for Comments
to
27 Nov 63

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File
RPV

11 October 1963

Dear John,

Enclosed are five (5) copies of a preliminary report on Contact Printers which we discussed last week.

This is in partial fulfillment of the work indicated on PAR 207 of Design objectives on this PAR will be forwarded to you shortly for your consideration and further direction of our effort.

Wayne
W. R. E.

WRE/PMC
Encs.
cc: J.P. w/o enc.